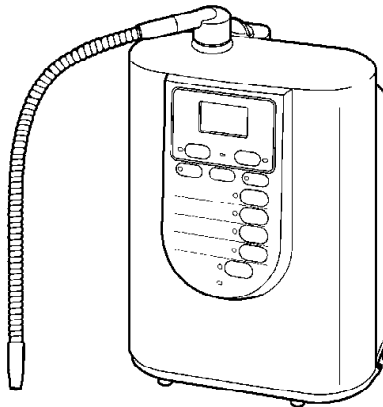


ORDER NO.LSD0506T20C3

**Alkaline Water Maker
TK7205-T3 / TK7215-T3**



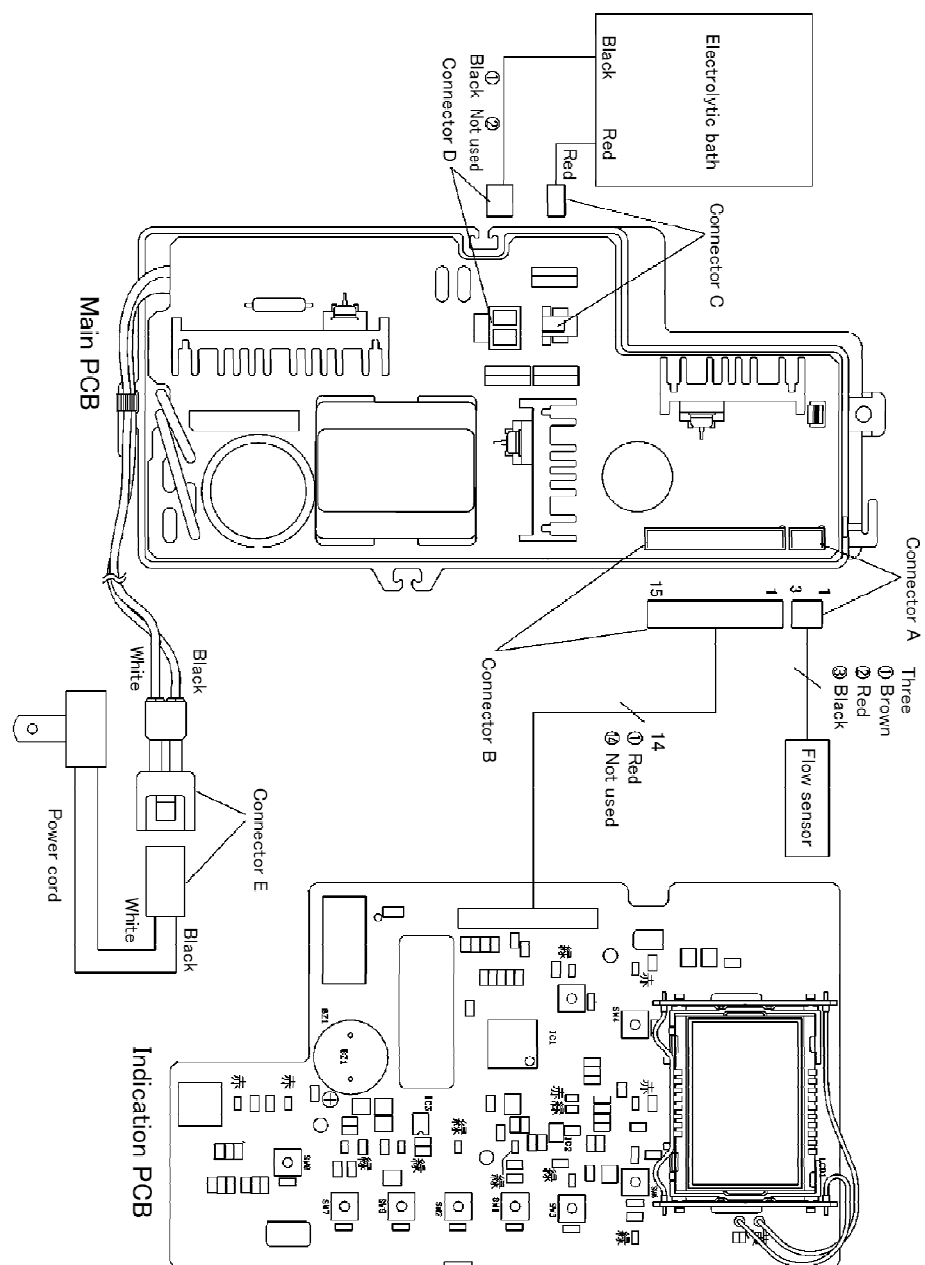
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Panasonic

1. SPECIFICATIONS

Power supply		AC110V 60Hz	
Pump consumption		approx. 80W (Max.), approx. 0.4W at standby	
Medical Device Manufacturing Approval No.		21600BZZ00664000	
Main unit	Dimensions	258 (H) x 159 (W) x 100mm(D)	
	Weight (full water level)	approx. 2.2kg	
Usage water temperature		Less than 35°C(at Water exchange lever less than 80°C)	
Usable water pressure (running water)		70 kPa – 350 kPa	
Maximum water pipe pressure (Static water)		70 kPa – 750 kPa	
Electrolysis system		Continuous electrolysis system	
Electrolysis	Treated water volume (water discharge volume)		2.0L/minute (at 100 kPa water pressure) 3.0L/minute (at 200 kPa water pressure)
	Electrolysis selection		Alkali: 3 levels, Acid: 1 level
	Continuous duty time		approx. 30 minutes
	Electrolytic cleaning		Automatic cleaning
Water purifier	Filter		Hollow fiber, Activated carbon, Ceramic
	Filter capacity	Residual chlorine	6,000L
		Impurities	6,000L
		Total trihalomethane	6,000L
		Dissoluble lead	6,000L
		2-MIB	6,000L
	Cartridge life-time		12 months when used at 15L/day.
Components of Cartridge		Cloth, activated carbon particles/powder, ceramic, hollow fiber	
Removable ingredients		Residual chlorine, muddiness, total trihalomethane, dissoluble lead, 2-MIB	
Not removable ingredients		Iron dissolved, heavy metals, salt	
Length of power cord		approx. 2m	
Protector		Current fuse 2.5A	

2. PICTORIAL WIRING DIAGRAM



3. PCB DIAGRAM (for reference)

3.1. INDICATION PCB

Indication	Abnormality	Details
U21	Sensing of extra currency	If the extra currency flows in the Electrolytic bath, the electrolysis stops for the protection of the product. (Water runs from the Outlet.) → Close the faucet and wait about 30 minutes to resume the usage. * It may take more than 30 minutes due to the reasons of water quality or environment.
U23	Increase of the temperature of the Main PCB	If the temperature of the Main PCB increases due to the reasons of the continuous flow of water, etc, the electrolysis stops for the protection of the product. (Water runs from the Outlet.) → Close the faucet and wait about 30 minutes to resume the usage. * It may take more than 30 minutes due to the reasons of water quality or environment.
U25	Life span of Cartridge (Clogging) Lack of flow amount	The flow amount does not exceed 1.2L. (If water flows, the flow amount is indicated on the Indication panel.) - Faucet is open? → Open the faucet. - Water supply hose is not bent? → Straighten it if so. - The junction of the Water exchange lever is not clogged with dusts? → Wash the filter of the junction of the Water exchange lever and the water inlet. (Refer to the Instruction manual.) * If the flow amount does not exceed 1.2L/min. after conveying the above procedures, it is the life span of the Cartridge due to the clogging. → Replace the Cartridge and the reset the life span of the Cartridge. * If the situations are not solved or water pressure is low, it would be due to the clogging of the faucet.
U26	Life span of the Cartridge (Total flow amount)	The total usage flow amount exceeds the life span of the Cartridge. → Replace the Cartridge and reset the life span of the Cartridge.
U27	Flow time is longer than the continuous electrolysis time.	If the flow time exceeds the continuous usage time, the electrolysis stops for the the protection of the product. (Water runs from the Outlet.) → Close the faucet and wait about three minutes.
U28	Forecast of the life span of the electrolysis bath	It is the forecast of the life span of the electrolysis. (Electrolysis time: accumulative approx. 847 hours) → Replace the Electrolytic bath. The life span of the Electrolytic bath is approx. 850 hours. Stop the water and unplug/replug the plug, then you can use the rest three hours(10min./day, three weeks).
H31	Life span of the electrolysis bath	It is the life span of the electrolysis bath. (Electrolysis time: accumulative approx. 850 hours) → Replace the Electrolytic bath.
H32	Electrolysis feedback abnormality	The FET of the Main PCB is broken. → Replace the Main PCB.
H33	EEPROM memory error	The memory of the Indication PCB is broken. → Replace the Indication PCB.
H34	Sensing of the abnormal currency	The FET of the Main PCB is broken. → Replace the Main PCB.

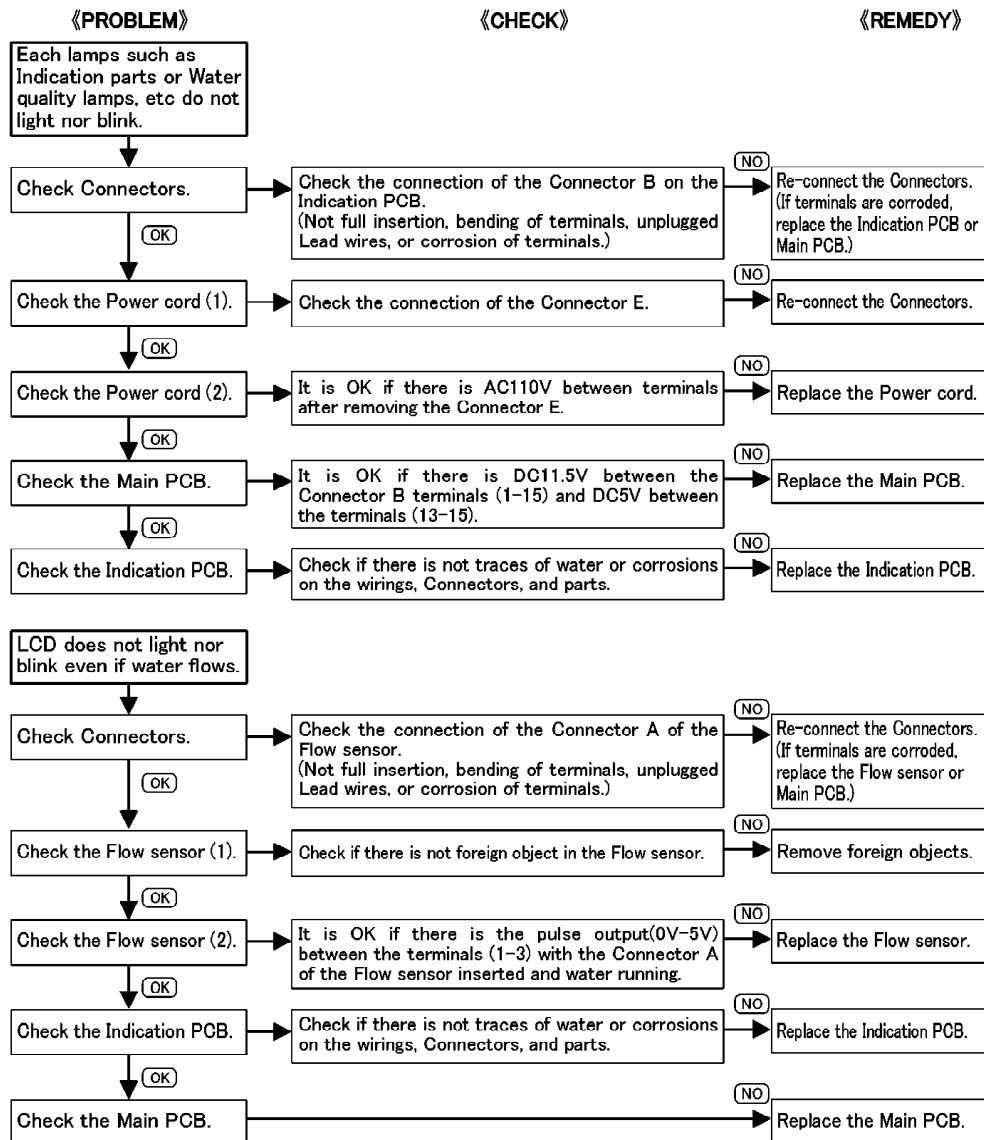
Notice:

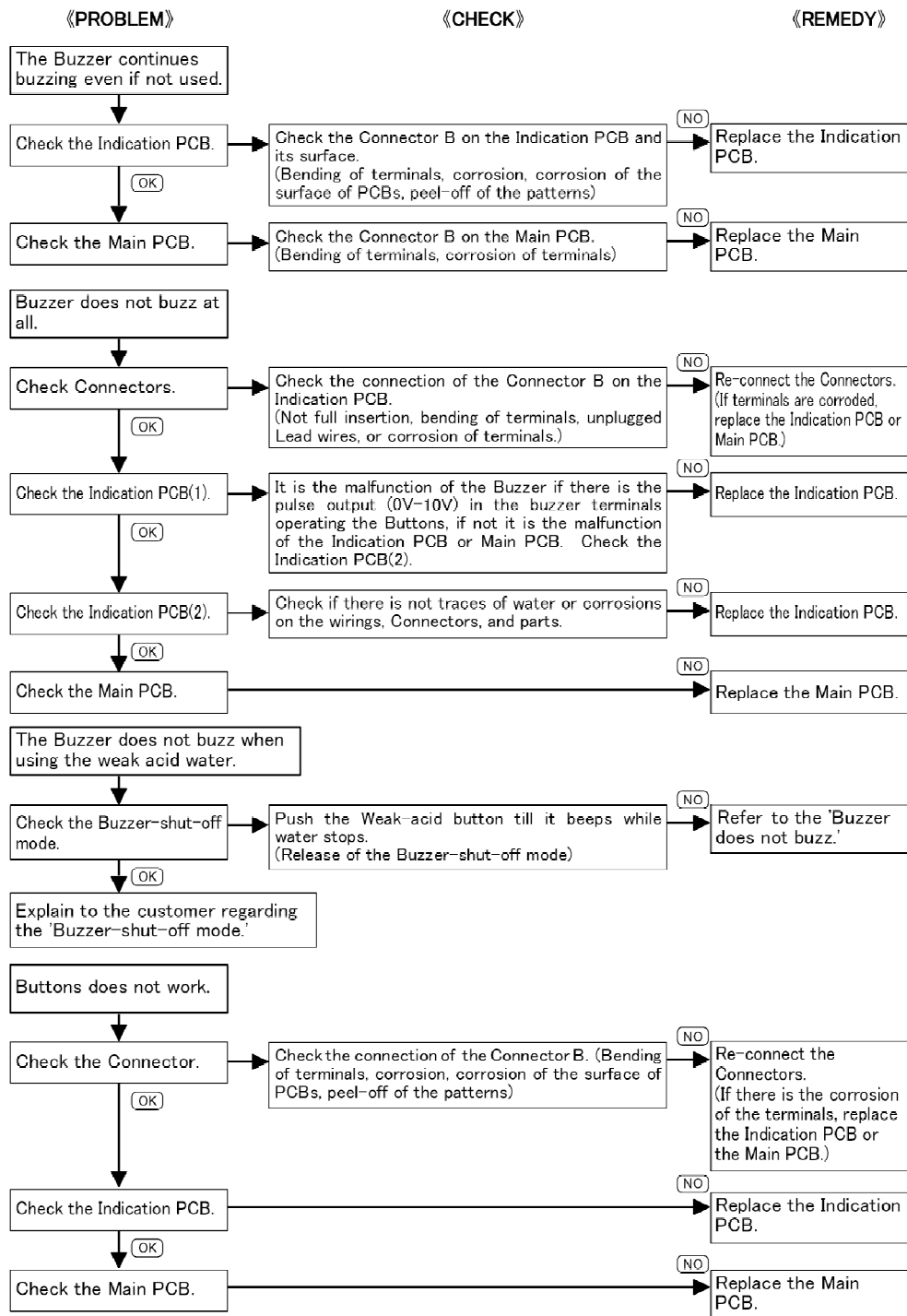
- Abnormal indications are categorized as follows:

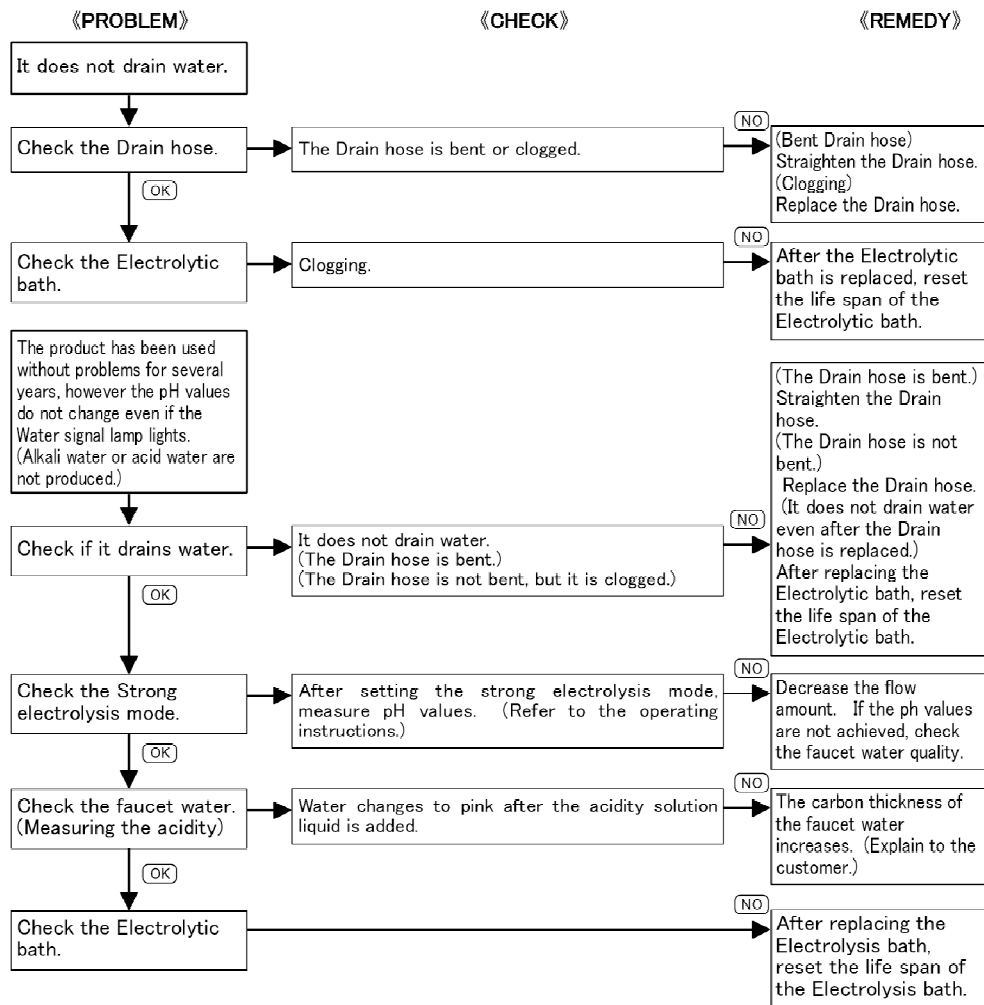
Uxx ---Customers can take care of this abnormality.

Hxx ---Repair the product based on the abnormality indication.

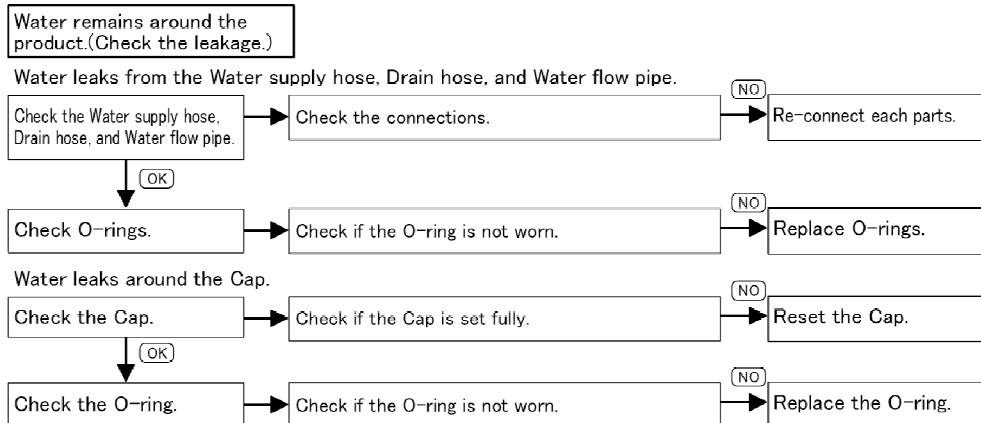
4.2. TROUBLESHOOTING GUIDE

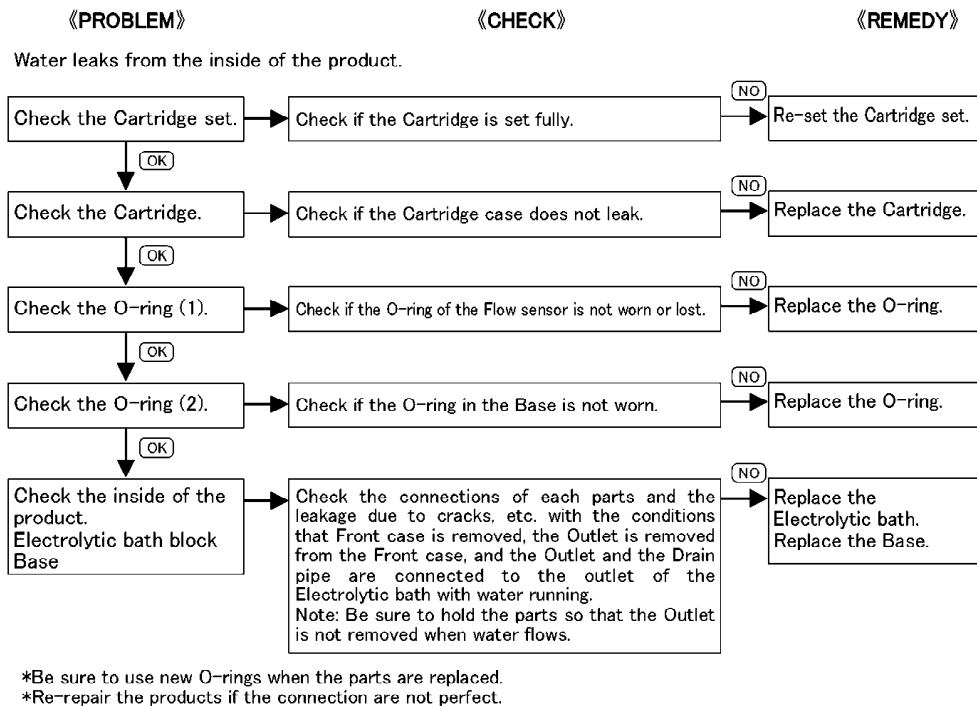






*If the Indication PCB is replaced before the termination of the life span of the Electrolytic bath (850 hours), the Operation hour memory is set to 0 hours from the factory shipment. Therefore, before the U28 or H31 are indicated, the life span of the Electrolytic bath is over and the pH values may not change.





5. DISASSEMBLY

When disassembling, be sure to drain water so that water drops do not drop on the PCBs or wirings. And be sure to stand the product while in work.

Be sure to convey the countermeasures for the static electricity wearing wrist band, etc.

- Unplug the Power plug before the disassembly.
- Close the faucet in advance and pull out the Water supply hose from the Water exchange lever, and the Acid water hose or Drain hose from the Acid water stand.
- Before disassembling, remember the parts compositions and wirings.
- When disassembling, some residual water comes out. Be sure to work on proper spots.
- The colors in the texts show the colors of the Connectors.

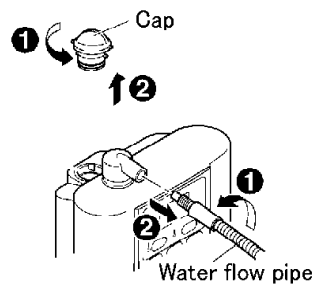
5.1. DISASSEMBLY OF MAIN BODY

1. Remove the Cap and the Water flow pipe.

- Turn the Cap as the Figure and pull it out upward.
- Turn the Water flow pipe as the Figure and remove it.

2. Drain the residual water.

- Turn the Main body upside down and drain water.



3. Remove the Cover.

- Push the Hook and pull it to your side.

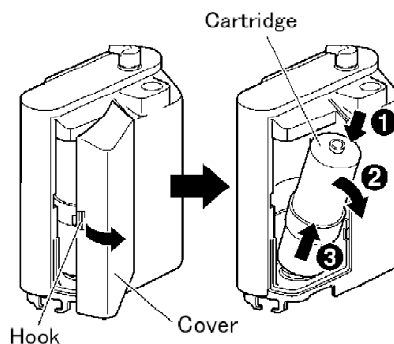
4. Remove the Cartridge.

A. Pushing the top of the Cartridge

B. Pull it to your side

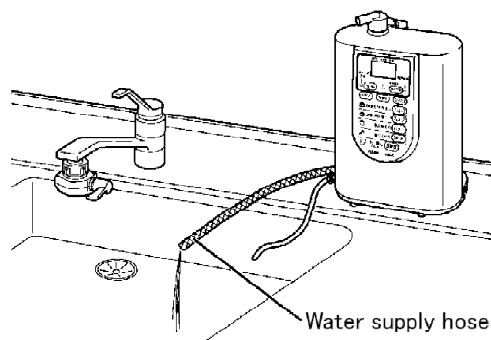
C. Pull it out upward

***Keep the Cartridge in the plastic bag till the installation.**

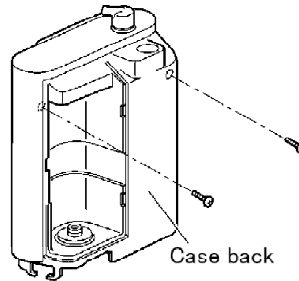


5. Drain the water in the Hose.

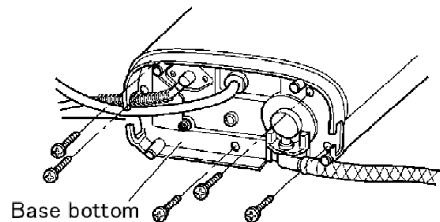
***Put the Water supply hose below the Main body.**



6. Unscrew two screws on the Case back.

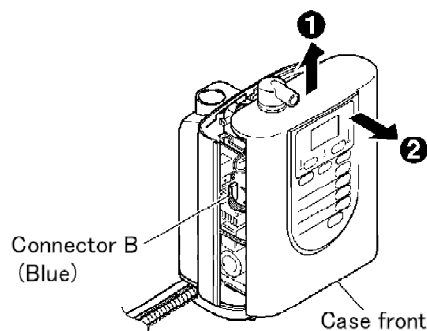


7. Unscrew five screws on the bottom of the Base.



8. Remove the Case front lifting and pulling at your side.

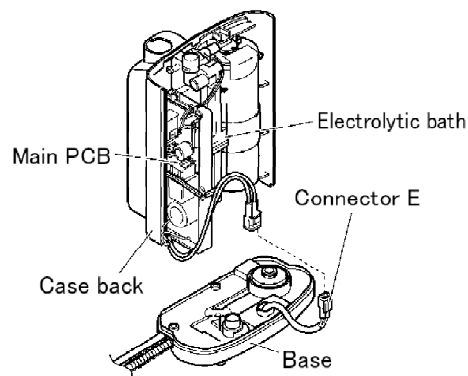
- Remove the Connector B on the Indication PCB from the Main PCB.



9. Remove the Base.

- Remove the Connector E.

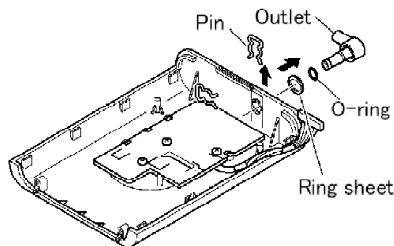
10. Remove the Case back, Electrolytic bath, and Main PCB as block.



5.2. DISASSEMBLY OF OUTLET

1. Remove the Outlet using pliers pulling it up.

***Be careful of the lost of the O-ring and the Ring sheet.**



5.3. DISASSEMBLY OF INDICATION PCB

1. Remove the Indication PCB unscrewing three screws.

- Remove the Insulation sheet.

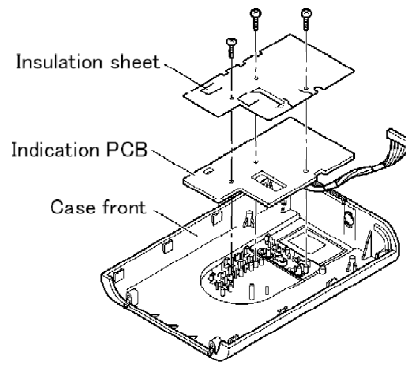
2. Replace the Indication PCB.

- Connect the Connector surely.

***After assembling, check if the lamp lights.**

***When assembling, make them assembled as original. Be sure not to damage Lead wires.**

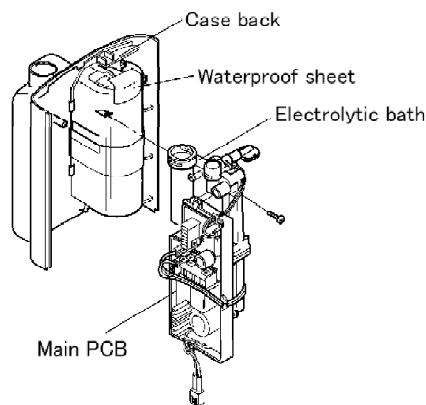
***Be careful of the static electricity.**



5.4. DISASSEMBLY OF MAIN PCB/ ELECTROLYTIC BATH

1. Remove the Main PCB and the Electrolytic bath as block.

*** When removing the Electrolytic bath, be careful not to tear the Waterproof sheet.**

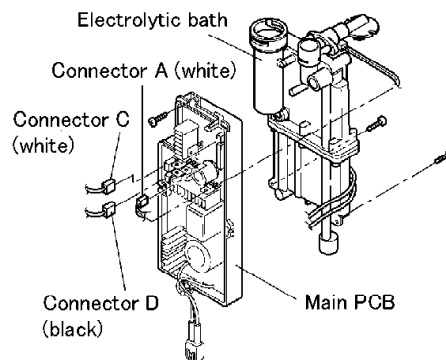


2. Remove the Main PCB.

- Remove the Connector A, C, and D on the Main PCB.

*** Do not apply extra load on the side of the flow sensor on the Main PCB pulling the Lead wire of the Connector A.**

3. Replace the Main PCB.



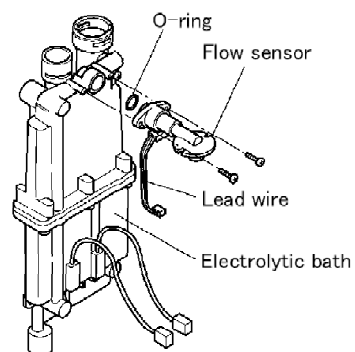
4. Pull out the Flow sensor from the Electrolytic bath.

- Unscrew two screws.

*** Be careful of the removal of the O-ring.**

5. Replace the Electrolytic bath.

*** After replacing the Electrolytic bath, reset the Operation time memory to 0.**

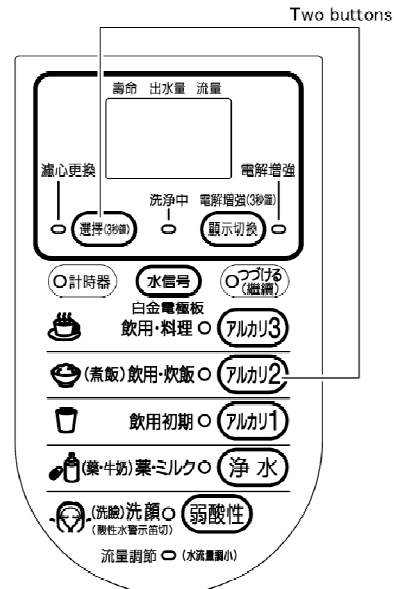


*Operation time memory after replacing the Electrolytic bath

- The Operation time memory on the Main PCB memorizes the operation time(life span) of the Electrolytic bath. You need to reset the Operation time memory to 0 hour after replacing the Electrolytic bath.

How to reset the Operation time memory to 0.

1. Unplug the Power source plug from the Power source and wait till the Water quality lamp goes off for a couple of seconds.
2. Pushing the buttons of 'Alkali2' and 'Selection', plug the Power source plug.
(It beeps (Bip) and 'Water signal (red)' lights.)
3. Release the buttons and push the button of 'Selection'.
(It beeps (Beep) and 'Water signal (green)' lights.)
*Check if the LCD shows '850.00'.
4. Unplug the Power source plug, confirm that the Water signal (green) goes off, and re-plug the Power source plug after a couple of seconds.
(It beeps (Bip) and the 'Initial drinking' lamp lights.)



5.5. DISASSEMBLY OF FLOW SENSOR

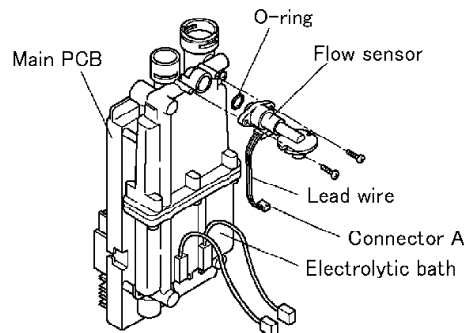
1. Remove the Flow sensor from the Electrolytic bath.

- Remove the Connector A from the Main PCB.
- Unscrew two screws from the Flow sensor.

2. Replace the Flow sensor.

- Connect the Connectors surely.

***Be careful of the removal or the lost of the O-ring and be not to pull the Lead wire of the Flow sensor.**



6. CHECKING AFTER REPAIR

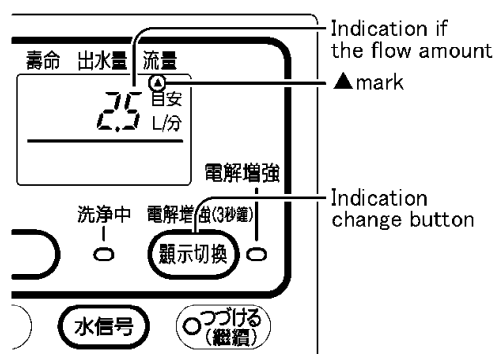
Checking	Check if abnormality is found	Remedy
Check the flow of water.	Check if the Water supply hose is not bent or crushed.	Straighten it.
Check if the water comes out from the Water supply hose when the water is produced.	Check if the Drain hose is not bent or crushed.	Straighten it.
Check if water does not leak on the connection of the Water exchange lever.	Check if the Water exchange lever is installed to the faucet surely.	Refer to the Operating instructions.
	Check if the parts of the Water exchange lever are installed correctly.	Install the parts correctly.
	Check if there is no crack on the tip of the faucet.	Explain to the customer and repair properly.
Check if the connection of the Water supply hose does not leak.	Check if the Water supply hose is installed to the Water exchange lever surely.	Install it firmly and fasten them with a nut.
Check if the Water flow pipe does not leak.	Check if the Water flow pipe is installed surely.	Screw it firmly.
	Check if the packing is installed to the Water flow pipe or there is not worn or lost or spiral.	Install the Packing correctly. If there is worn or lost, replace it.
Check if faucet does not leak.	Check the parts of leakage.	Explain to the customer and repair properly.
Check if the Main body does not leak.	Check if the connection of the Cartridge does not leak.	Install the Cartridge firmly.
The pH values do not increase.	Main body leaks inside.	Refer to the Malfunction analysis.
	Check if the tip of the Drain hose is below the bottom of the Main body and the balance of the heights of the positions of the Outlet and the Drain hose is more than 10cm and less than 50cm.	Install them correctly. If the values do not increase after trying, refer to the malfunction analysis.

7. CHECKING OF FLOW AMOUNT

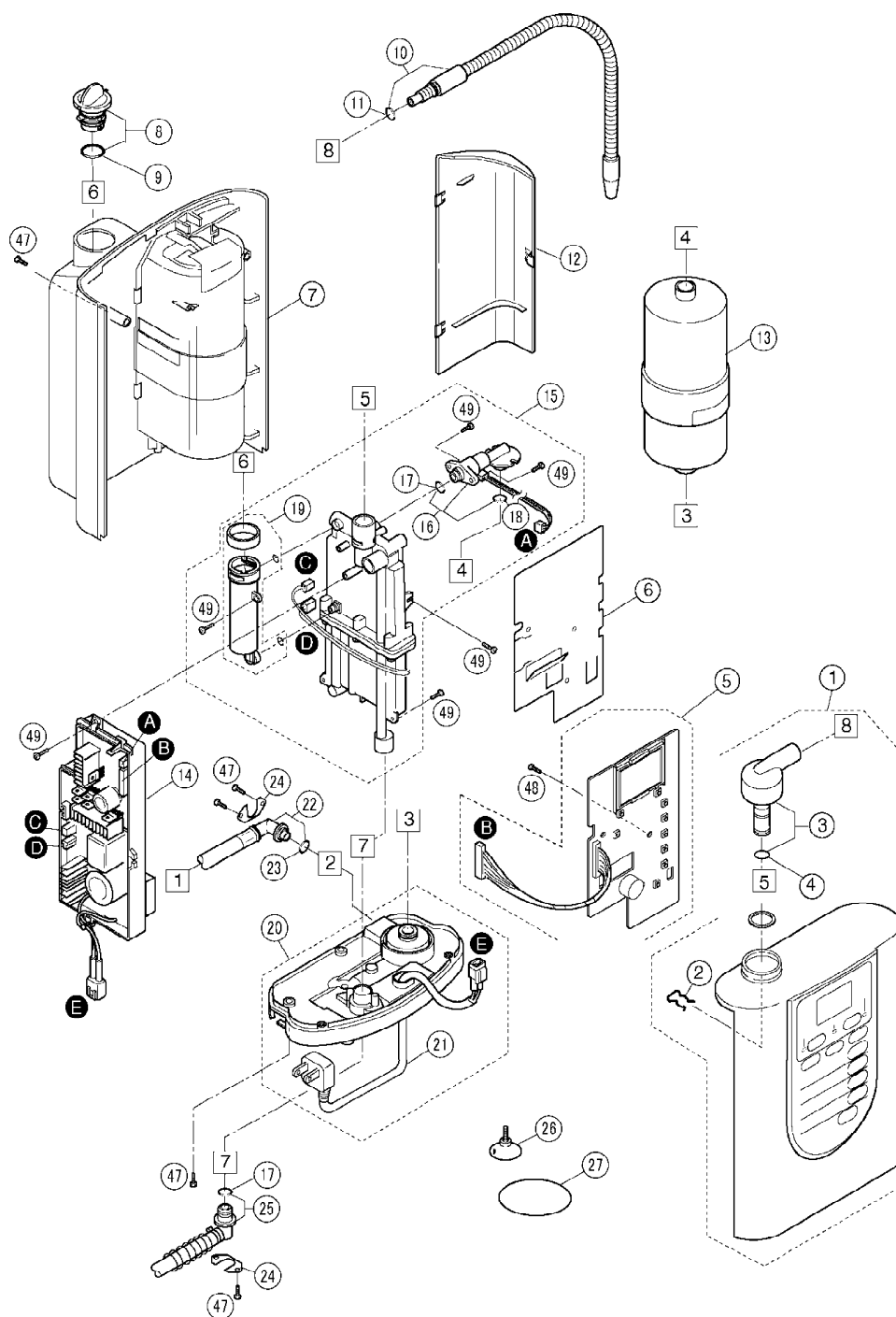
You can check the flow amount, which is the amount of water flowing from the Outlet and the Drain hose for one minute.

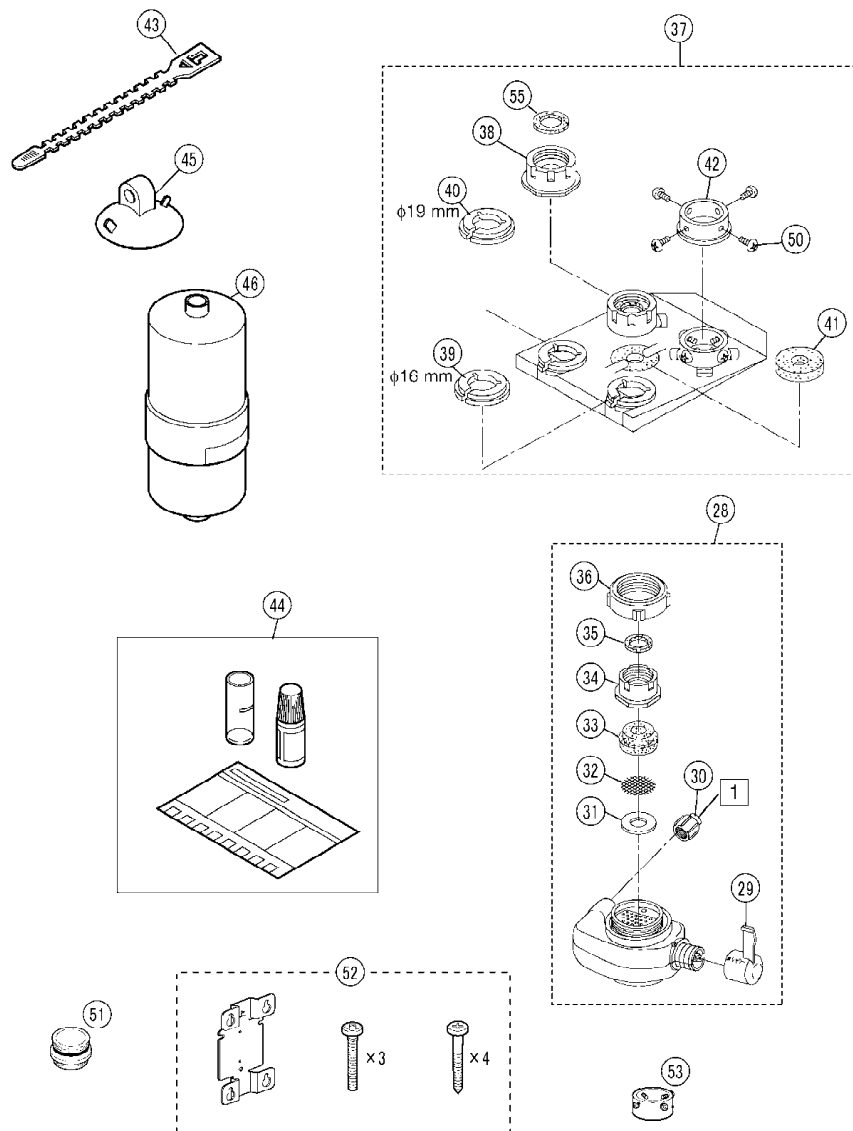
Push the Indication change button so that the ▲ mark points at the Flow amount.

- While the water stops, it is shown '0.0L/min.'



8. EXPLODED VIEW





9. REPLACEMENT PARTS LIST

Ref. No.	Parts No.	Parts Name & Descriptions	Remarks	Per Unit
<u>1</u>	WTK7205S3107	MAIN CASE A FOR TK7205ZTAS88		1
<u>(1)</u>	WTK7215N3107	MAIN CASE A FOR TK7215ZTAN88		1
<u>2</u>	WTK7205L9127	PIN		1
<u>3</u>	WTK7405H0457	OUTLET		1
<u>4</u>	WTK7405L0907	O RING (P9 EPDM)		1
<u>5</u>	WTK7205L2117	INDICATION PCB		1
<u>6</u>	WTK7205L2257	INSULATION SHEET		1
<u>7</u>	WTK7205H3118	MAIN CASE B		1
<u>8</u>	WTK7405S0527	CAP		1
<u>9</u>	WTK7405L0987	O RING (1017 NBR)		1
<u>10</u>	WTK7205H7307	OUTLET TUBE		1
<u>11</u>	WTK7405L0997	O RING (S9 EPDM)		1
<u>12</u>	WTK7205H3128	COVER		1
<u>13</u>	TK7405C1ZTA	CARTRIDGE		1
<u>14</u>	WTK7205L2107	MAIN PCB		1
<u>15</u>	WTK7205L4447	ELECTROLYTIC BATH		1
<u>16</u>	WTK7405L2267	FLOW SENSOR		1
<u>17</u>	WTK7405L0917	O RING (P8 EPDM)		2
<u>18</u>	WTK7405L0927	O RING (P9 NBR)		1
<u>19</u>	WTK7405L0227	CALCIUM TUBE HOLDER		1
<u>20</u>	WTK7205H3957	BASE		1
<u>21</u>	WTK7405H2057	POWER CORD		1
<u>22</u>	WTK7405H0697	WATER SUPPLY HOSE		1
<u>23</u>	WTK7405L0937	O RING (P7 NBR)		1
<u>24</u>	WTK7405L0217	FITTING		2
<u>25</u>	WTK7405H0607	DRAIN HOSE		1
<u>26</u>	WTK7405L7877	SUCKER		1
<u>27</u>	WTK7405L3017	INSTALL BOARD		1
<u>28</u>	WTK7205H4097	WATER EXCHANGE LEVER		1
<u>29</u>	WTK7405H4007	LEVER		1
<u>30</u>	WTK7405H0897	NUT		1
<u>31</u>	WTK7405H0807	WASHER		1
<u>32</u>	WTK7405L2277	FILTER		1
<u>33</u>	WTK7405L0967	PACKING		1
<u>34</u>	WTK7405H4017	BOARD A		1
<u>35</u>	WTK7405L0977	PACKING		1
<u>36</u>	WTK7405H0817	NUT		1
<u>37</u>	WTK7205X7377	FITTING SET		1
<u>38</u>	WTK7405H4027	BOARD B		1
<u>39</u>	WTK7405L3727	INSTALL RING 16MM		1
<u>40</u>	WTK7405L3737	INSTALL RING 19MM		1
<u>41</u>	WTK7405L0007	INSTALL RING PACKING		1
<u>42</u>	WTK7405X7377	FITTING		1
<u>43</u>	WTK7405L0747	HOSE BAND		1
<u>44</u>	WTK7405L8437	SOLUTION SET		1
<u>45</u>	WTK7405L7887	SUCKER		1
<u>46</u>	WTK7405L0101	WASHING CARTRIDGE		1
<u>47</u>	WTK7405L9117	SCREW		10
<u>48</u>	WTK7205L9107	SCREW		3
<u>49</u>	WTK7205L9207	SCREW		8
<u>50</u>	WTK7205L9217	INSTALL SCREW		4
<u>51</u>	WTK7405L0628	JOINT D		1
<u>52</u>	WTK7405L0638	HOLDING PLATE FOR WALL		1
<u>53</u>	WTK7205X7378	FITTING		1

Ref. No.	Parts No.	Parts Name & Descriptions	Remarks	Per Unit
	WTK7205W8008	INDIVIDUAL BOX FOR TK7205ZTAS88		1
	WTK7205W8028	OUSIDE CARTON FOR TK7205ZTAS88		1
	WTK7205W8347	PAD		1
	WTK7405W8357	PAD A		1
	WTK7405W8367	PAD B		1
	WTK7205W8108	OPERATION MANUAL		1
	WTK7405W8038	CARTRIDGE BOX		1
	WTK7215W8008	INDIVIDUAL BOX FOR TK7215ZTAN88		1
	WTK7215W8028	OUTSIDE CARTON FOR TK7215ZTAN88		1
	WTK7700L8347	INDIVIDUAL PACKAGE PAD SET		1
	WTK7700L8788	INSTRUCTION BOOKLET		1